What is FRBR? (Functional Requirements for Bibliographic Records)

Presented by
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for the FRBR Pre-Conference
ALA Orlando
June 24-25, 2004

FRBR

• Publisher:
  K.G. Saur

• Also available on the Web:
  http://www.ifla.org/VII/s13/frbr/frbr.htm
What Are We Cataloging?

• Library collections
  – Books
  – Serials
  – Maps, globes, etc
  – Manuscripts.
  – Musical scores
  – A-V
    • sound recordings
    • motion pictures
    • photographs, slides
  – Multimedia
  – “Remote” digital materials
**Entity-Relationship Model**

- Entities
- Relationships
- Attributes

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**FRBR Entities**

**Group 1**: Products of intellectual & artistic endeavor
- Work
- Expression
- Manifestation
- Item
Vocabulary

• “Book”
  – Door prop (item)
  – “publication” at bookstore any copy (manifestation)

Vocabulary

• “Book”
  – Who translated? (expression)
  – Who wrote? (work)
**FRBR Entities**

**Group 2:** Those responsible for the intellectual & artistic content
- Person
- Corporate body

**FRBR Entities**

**Group 3:** Subjects of works
- Groups 1 & 2 *plus*
- Concept
- Object
- Event
- Place
Group 1

**FRBR**

- **Work**
  - is realized through
  - **Expression**
    - is embodied in
    - **Manifestation**
      - is exemplified by
      - **Item**

**Modes of Expression**

- Alpha-numeric
- Music notation
- Other notation (e.g., choreographic)
- Sound
- Still image
- Moving image
- Three-dimensional object
- Combinations of above
Joint Steering Committee for Revision of AACR2 (JSC)

- Task Force on Format Variation
  - Work-level citations
  - Expression-level citations

Update AACR terminology to use FRBR terms:
  - Work, Expression, Manifestation, Item

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**Diagram:**

- **Work**
  - is realized through
  - **Expression**
  - is embodied in
  - **Manifestation**
  - is exemplified by
  - **Item**

- Intellectual/Artistic content
- Physical - recording of content
FRBR Entity Levels

Work:
- The Novel
- The Movie

Expression:
- Orig. Text
- Transl.
- Critical Edition
- Orig. Version

Manifestation:
- Paper
- PDF
- HTML

Item:
- Copy 1
  - Autographed
- Copy 2
FRBR Entity Levels

Family of works

Work:
- The Novel
- The Movie

Expression:
- Orig. Text
- Transl.
- Critical Edition
- Orig. Version

Manifestation:
- Paper
- PDF
- HTML

Item:
- Copy 1 Autographed
- Copy 2

Group 1 - Relationships
Inherent to the Entities

FRBR

- **Work** “is realized by” an expression
  - **Expression** “is embodied in” a **manifestation**
  - **Manifestation** “is exemplified by” an **item**
  - **Item**

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**Relationships - Work/Expression**

\[ w_1 \] Charles Dickens’ *A Christmas carol*

\[ e_1 \] the author’s original English text

\[ e_2 \] a Tamil translation by V.A. Venkatachari

\[ \text{FRBR} \]

“is realized by”

FRBR, p. 59

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**Relationships - Work/Expression/Manifestation**

\[ w_1 \] J.S. Bach’s *Goldberg variations*

\[ e_1 \] performance by Glenn Gould in 1981

\[ m_1 \] recording released on 331/3 rpm sound disc in 1982 by CBS Records

\[ m_2 \] recording re-released on compact disc in 1993 by Sony

\[ m_3 \] digitization of the Sony re-release as MP3 in 2000

\[ \text{FRBR} \]

“is embodied in”

Based on FRBR, p. 59
**Relationships - Work/Expression/Manifestation/Item**

\( w_1 \), *Lost treasures of the world* \\
\( e_1 \), the interactive electronic resource \\
\( m_1 \), the CD published in 1994 by Follgard CD-Visions \\
\( i_1 \), first copy held by Calgary Public Library \\
\( i_2 \), second copy held by Calgary Public Library

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“is exemplified by”

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**Relationships**

- Inherent among the entities
- Content relationships among works
### Family of Works

<table>
<thead>
<tr>
<th>EQUIVALENT</th>
<th>DERIVATIVE</th>
<th>DESCRIPTIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microform reproduction</td>
<td>Editions</td>
<td>Review</td>
</tr>
<tr>
<td>Copy</td>
<td>Abridged edition</td>
<td>Casebook</td>
</tr>
<tr>
<td>Exact reproduction</td>
<td>Illustrated edition</td>
<td>Criticism</td>
</tr>
<tr>
<td>Facsimile</td>
<td>Arrangement</td>
<td>Evaluation</td>
</tr>
<tr>
<td>Reprint</td>
<td>Variations or versions</td>
<td>Annotated edition</td>
</tr>
<tr>
<td></td>
<td>Slight modifications</td>
<td>Commentary</td>
</tr>
<tr>
<td>Original</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Same work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New work</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Stylistic Forms**
- Parody
- Revision
- Translation
- Criticism
- Variations or versions
- Editions
- Expurgated edition
- Arrangement
- Adaptations
- Free translation
- Dramatization
- Novelization
- Screenplay
- Libretto
- Change of genre
- Same style or thematic content
- Imitations
- Evaluation
- Review
- Casebook
- Adaptations
- Change of genre

**Whole-Part Relationships**

- **Components**
- **Aggregates**

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Whole-Part Relationships

WORKS WITHIN WORKS
Components/Aggregates

- Shape = container/carrier
- Color = content

Part-to-Part Relationships

- Component to component
  - Sequential Relationship
  - Accompanying Relationship (or Companion Relationship)
    - Dependent
    - Independent
Part-to-Part Relationships

WORKS WITHIN WORKS
Components-to-Component

Accompanying Relationships

Sequential Relationships

Shape = container/carryer
Color = content

Group 1 Entities’ Attributes

FRBR

- **Work**
  - ID
  - Title
  - Date
  - etc.

- **Expression**
  - ID
  - Title
  - Form
  - Date
  - Language
  - etc.

- **Manifestation**
  - ID
  - Title
  - Statement of responsibility
  - Edition
  - Imprint (place, publisher, date)
  - Form/extent of carrier
  - Terms of availability
  - Mode of access
  - etc.

- **Item**
  - ID
  - Provenance
  - Location
  - etc.
**Relationship vs. Attribute**

**Work** Created by Creates **Person**

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**DRAFT** FRANAR extension to **FRBR**

FRBR Entities:
- Person
- Family
- Corporate Body
- Work
- Expression
- Manifestation
- Item
- Concept
- Object
- Event
- Place

Name Identifier

Access Point

Rules

Agency

December 2003
Possible FRBR applications
Scenario A - Now

Authority
- Work/Expression Uniform Title

Person

Series (work/expression)
- Uniform Title
- Concept

Manifestation

Bibliographic

Holding

Item

“FRBR-ized” OPAC Displays


LC Control Number: 9619557
Type of Material: Book (Print, Microform, Electronic, etc.)
Copy 1
- Request in: Rare Book/Spacial Collections Reading Room (Jefferson L233)
"FRBR-ized" OPAC Displays


- LC Control Number: 96100579
- Type of Material: Book (Print, Microform, Electronic, etc.)
- Brief Description: Ducis, J.-F. (Jean-François). 1733-1815. 
  Hamlet: tragédie ; imitée de l'anglais / par M. Ducis ; 
  représentée pour la première fois par les Comédiens 
  français ordinaire du roi, le 30 septembre 1759. 
  A Paris ; chez Gruel, libraire ... 1770. 
  [8], 43 p., 21 cm. (8vo)
- CALL NUMBER: P0191.04-H36 1770 Batchelder Coll
  Copy 1
- Request in: Rare Book/Special Collections Reading Room (Jefferson
  L.J239)

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"FRBR-ized" OPAC Displays


LC Control Number: 96106597
Type of Material: Book (Print, Microform, Electronic, etc.)
Brief Description: Ducis, J-F. (Jean-Francois). 1733-1818.
Hamlet : tragédie; imité de l'anglois / par M. Ducis ; représentée pour la première fois par les Comédiens français ordinaire du roay, le 30 septembre 1759, A Paris : Chez Gange, libraire ..., 1770. [8], 113 p., 21 cm. (8vo)
CALL NUMBER: PO1818 D6 H64 1770 Batchelder Coll
Request in: Rare Books/Special Collections Reading Room (Jefferson L4139)
**Relationships - Person/Work**

\[ w_1 \text{ The shepheardes calendar} \]
\[ w_2 \text{ The faerie queen} \]
\[ w_3 \text{ Astrophel} \]
\[ \ldots \text{ etc.} \]
\[ p_1 \text{ Edmund Spenser} \]

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“created by”

**Relationships - Corporate Body/Expression**

\[ e_1 \text{ a 1980 performance of Allegri’s Miserere} \]
\[ e_2 \text{ a 1986 performance of Josquin’s Missa pange lingua} \]
\[ e_3 \text{ a 1989 performance of Lassus’ Missa osculetur me} \]
\[ \ldots \]
\[ cb_1 \text{ The Tallis Scholars} \]

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“realized by”
**Relationships - Corporate Body/Manifestation**

- $m_1$, the 1965 publication by Coach House Press of Wayne Clifford’s *Man in a window*
- $m_2$, the 1966 publication by Coach House Press of Joe Rosenblatt’s *The LSD Leacock*
- $m_3$, the 1966 publication by Coach House Press of Henry Beissel’s *New wings for Icarus*

... 

$cb_1$, Coach House Press

**“produced by”**

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**Relationships - Corporate Body/Item**

- $i_1$, a copy of the “Penkill Proofs” of D.G. Rossetti’s *Poems* printed in August 1869, with manuscript annotations by the author
- $i_2$, a copy of the “A Proofs” of D.G. Rossetti’s *Poems* printed in September 1869, with manuscript annotations by the author

... 

$cb_1$, Princeton University Library

**“owned by”**

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Group 3

FRBR

Relationships - Subject/Work

$c_1$ Romanticism

$w_1$ Morse Peckham’s *Beyond the Tragic Vision*

$w_2$ *Romanticism reconsidered*, edited by Northrup Frye

...
Objectives of Catalogs

• Cutter’s objectives for the catalog
  – Finding - description and access standards
  – Collocating - controlled “vocabularies” for precision of searching

“User Tasks” - FRBR

• Find (locate and collocate)
• Identify
• Select
• Obtain

• Relate
• Other possible tasks:
  – Attribute Royalties to
  – Preserve
Objectives of Catalogs

- Finding
  - A single specific resource
  - All the works and expressions of a person, corporate body, or family
  - All resources on a given subject
  - All resources sharing some specific characteristic
    - Language, country of publication, date, physical format, etc.

- Collocating
  - All resources belonging to the same work
  - All resources belonging to the same expression
  - All resources belonging to the same manifestation

Collocation by Works

- Shakespeare, William, 1564-1616.
  + All’s well that ends well
  + As you like it
  + Hamlet
  + Macbeth
  + Midsummer night’s dream
Collocation by Family of Works and Expressions

  - Texts
  - Motion Pictures
  - Sound Recordings

Collocation by Expressions

  - Texts – Danish
  - Texts – Dutch
  - Texts – English
  - Texts – French
  - Texts – Spanish
  - Motion Pictures – English
  - Sound Recordings - English
Collocation of Manifestations

  - Motion pictures – English
    + 1964 Director, Bill Collogan
    + 1990 Director, Kevin Kline, Kirk Browning
    + 1990 Director, Franco Zeffirelli
    + 1992 Director, Maria Muat
    + 1996 Director, Kenneth Branagh
    + 2000 Director, Campbell Scott, Eric Simonson

Where is FRBR most useful?

- Classics of literature vs. scientific studies
- Examples in the OCLC database
  - Stephen King
    - 102 works, 231 manifestations
  - Shakespeare’s *Hamlet*
    - 1 work, 2696 manifestations
  - Rowling, J.K. (Harry Potter stories)
    - 28 works, 300 manifestations
FRBR Applications

- Related models:
  - <indecs>
  - ABC model in Project Harmony (US, UK, Australia)
  - Indiana Univ.: Variations2 digital music

- Applications:
  - Denmark: VisualCat
  - Australia: AustLit
  - VTLS and Innovative Interfaces Inc.
    - Virtua’s “FRBR-ized” catalog
  - OCLC’s Fiction Finder; future WorldCat
  - RLG’s Web union catalog plans and their experimental RedLightGreen

FRBR-ize MARC records

OCLC’s algorithm
http://www.oclc.org/research/software/frbr/

LC’s display tool
http://www.loc.gov/marc
International Code for Bibliographic Description and Access

- IFLA Conferences 2003+
- Collaboration with ICA, ISO, DC, W3C, etc.
- Goal = Collaborative use in multiple environments
  - consistency
  - trust
  - authority

FRBR futures

- Terminology
- Concepts
  - Entities
  - Relationships
  - Attributes
- Goals of bibliographic control
  - Finding
  - Collocating
Thank you!

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